

Timothy Delille

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Education

University of California, Berkeley , Master of Engineering in <i>Electrical Engineering and Computer Sciences</i> (EECS) with a specialization in Data Science and Systems <ul style="list-style-type: none">Coursework: <i>Machine Learning, Applied Stochastic Processes, Financial Engineering, Convex Optimization, Principles and Techniques of Data Science</i>Fung Excellence Fellow	2019-2020 Berkeley, CA
Arts et Métiers ParisTech , Combined BSc and MSc in <i>Mechanical and Industrial Engineering</i> • 3.93/4.0 GPA <ul style="list-style-type: none">One of France's top-ranking Grandes Écoles for Engineering (combined Bachelor of Science and Master of Science)Coursework: <i>Advanced Controls Systems, Financial Analysis, Optimization and Numerical Methods, Power Electronics, Continuum Mechanics and Finite Element Methods</i>Louis Magne Fellow	2017-2019 Paris Lille
Lycée Privé Sainte-Geneviève , Versailles, Preparatory program • 3.81/4.0 GPA <ul style="list-style-type: none">Two years of intensive program in France's top-ranking school leading to nationwide entrance examinations to the Grandes Écoles for scientific studiesCoursework: <i>Linear Algebra, Probability and Stochastic Processes, Vector Calculus, Vector-valued functions, multivariate calculus, Improper Integrals, Differential Systems</i>	2015-2017 Versailles
ABIBAC Certificate , Lycée Richelieu • awarded with highest honours <ul style="list-style-type: none">Combination of the German Abitur and the French scientific Baccalaureat with concentrations in mathematics and engineering sciences	2012-2015 Paris

Project Work

Capstone Project / Research Work: Artificial Intelligence and Blockchain under the supervision of Prof. Dawn Song <ul style="list-style-type: none">Applying secure computation and blockchains to train machine learning models on large-scale datasets while preserving data privacy	2019-2020
Dassault UAV Challenge under the supervision of Prof. Nazih Mechbal <ul style="list-style-type: none">Competition between France's top engineering schools, whose aim is to program a drone to deliver packages and detect targets autonomouslySuccessfully trained object detection neural networks (SSD, YOLOv3) using computer generated training images	2018-2019
CREDA under the supervision of Prof. Patrice Dubois <ul style="list-style-type: none">One of the seven students selected to be part of a special start-up creation programUsed data-analytics and clustering algorithms to help e-commerce businesses develop targeted marketing strategies	2018-2019

Internship Experience

Eurovia Management , Paris: Data Scientist Intern under the supervision of Regional Director Nicolas Wolff <ul style="list-style-type: none">Co-founded Elena, a start-up using deep learning algorithms on embedded devices (NVIDIA's Jetson Nano GPU) whose aim is to detect contexts from video streams and predict dangerous situations on building sitesIn addition to its support from Eurovia, Elena received the Jacobs Institute Innovation Catalysts grant from the CITRIS Invention Lab and the Jacobs Institute at University of California, Berkeley	May – Aug 2019
Institute of Transportation Studies , University of California, Berkeley: Research assistant under the supervision of Director, Prof. Alexandre Bayen <ul style="list-style-type: none">Developed a crowdsourcing website to gather knowledge about the impact of navigational apps on communitiesDeveloped ACCESS Magazine's new website, edited by UCLA and UC Berkeley Faculty membersDeveloped the EE2900 Flow-course website (<i>Deep multi-agent reinforcement learning with applications to autonomous traffic</i>)	Jul – Sept 2018
Safran Electronics & Defense , Paris: Supply Chain Intern <ul style="list-style-type: none">Used data analytics and flow management methods to optimize processes used on the <i>Rafale</i> production line	Jun – Jul 2018

Skills

Python (<i>Pandas, Numpy, Matplotlib, TensorFlow, Keras, OpenCV, ...</i>), Matlab, SQL	I.T. Skills
Web design (HTML/CSS/Bootstrap, JavaScript/jQuery, PHP, MySQL)	
French (mother tongue) • English (TOEFL: 111/120) • German (fully operational): Abitur (= A levels)	Languages

Awards and Societies

Hackathon First Prize Winner : innovative ways of using A.I. for performance and prevention (organized by Eurovia)	March 2019
Member of the Berkeley Investment Group	2019-2020
Instructor for sophomores in applied mathematics	2017-2019